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Notice of Allowability	Application No.	Applicant(s)	
	09/666,159	LEE, DAE-JIN	
	Examiner	Art Unit	
	Andrew W Wahba	2661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/26/2004.
2. ☒ The allowed claim(s) is/are 1, 4-19, 21 and 23-26 (renumbered 1-22).
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |


PHIRIN SAM
PRIMARY EXAMINER

DETAILED ACTION

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required in this application because Some figure elements require labeling. In Fig 3, elements 14, 26, 32, 34, and 42 require descriptive labels. Figures 4-7 have similar problem. Applicant is advised to employ the services of a competent patent draftsman outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

2. Claims 4-19, 21 and 23-26 have been renumbered 2-17, 18 and 19-22 respectively.

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

The application has been amended as follows: In claim 9 (renumbered claim 7), replace "o" (line 2) with "to a".

Allowable Subject Matter

4. Claims 1, 4-19, 21 and 23-26 (renumbered 1-22) are allowed. The following is a statement of reasons for the indication of allowable subject matter:

With regard to claim 1, the prior art does not teach or fairly suggest a public switched telephone network (PSTN) connection means for forming a communication route with PSTN and third signal converting means for converting analogue signal including analogue voice signal from the PSTN to a digital signal, wherein the transmitting/receiving means further comprises fourth signal converting means for forming a second communication route with a telephone of a second opposite party through internet network, packeting a digital voice signal from the third signal converting means to send same to the telephone of the second opposite party through the second communication route, decomposing packet data including the voice signal from the telephone of the second opposite party received through the second communication route, and converting the decomposed voice digital signal from the second communication route to an analogue signal to output same to the PSTN connection means through the PSTN.


With regard to claim 19 (renumbered 17), the prior art does not teach or fairly suggest third communication route forming means for a third communication route with the voice input/output means and the communication-requested general telephone according to communication request from the general telephone through PSTN; and fourth communication route forming means for forming a fourth communication route with the communication-requested general telephone according to communication request from general telephone through PSTN and internet based telephone of the opposite party through the internet network; wherein said apparatus is able to form the fourth communication route in the course of forming the second communication route

and is able to form the second communication route in the course of forming the fourth communication route.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew W Wahba whose telephone number is (571) 272-3081. The examiner can normally be reached on M-F 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth N Vanderpuye can be reached on (571) 272-3078. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully Submitted, 

Andrew Wahba
Patent Examiner
November 12, 2004


**PHIRIN SAM
PRIMARY EXAMINER**